

Grantee Report to
Richard King Mellon Foundation

Grantee: Allegheny County Department of Human Services
Award Date: April 14, 2014
Amount: \$1,500,000
Purpose/Project: Technology Improvements
Grant ID: 7432
Executive Director: Marc Cherna
Report Due Date: March 31, 2019

As requested in your letter of 4/4/18, the following provides additional information about the development of tools supported by this grant. This response is divided into two parts to correspond to the two tools: ClientView and the Allegheny Family Screening Tool.

CLIENTVIEW

The first phase of the project, developing the foundation of the application, was successfully completed in January 2016 with a focus on improving the user experience and meeting current user expectations for internet-based applications. Additional information sources were also added including DHS's common assessments, the Child Adolescent Needs and Strengths Assessment (CANS) and the Family Assessment of Strengths (FAST), as well as additional client documents stored in our countywide document management system. These documents include child welfare safety assessments, dependency petition hearing summaries, petitions for dependency, risk assessments, shelter care applications and transition plans. During this initial phase, the capacity to track and display the names of client workers currently and formerly working with this individual was added to Client View to support case coordination.

The second phase of the project, expanding access to providers, began in February 2016 with a pilot group of providers and ended in May, at which point, DHS began a phased rollout of Client View within each DHS service system, providing in-person training and guidance on the use of the system.

To date, Client View has been rolled out and made available to a majority of DHS contracted providers representing the array of service systems administered by DHS. Client View has been well-received by the Provider Agencies, and we have seen a lot of enthusiasm surrounding the use of the system and being able to incorporate this new tool into their business processes. Provider staff have been trained on giving access to clients so that they can initiate a conversation together about their history and use the information to strategize next steps and to provide the best care possible.

The third and final phase of the project, focused outreach to clients, has experienced some delays, but is nearing large scale rollout. Because Client View is developed upon a data warehouse model, giving clients access to Client View is intrinsically more difficult than what health care providers experience in sharing an electronic health record. In an electronic health record model, the record is established, and information is downloaded into it. In a data warehouse model, distinct source system records that already exist are being matched to one another to determine shared identities, and a record is established based on this matching process. This model has proven effective for the majority of client records but was not structured appropriately to address exceptional cases where a client record was duplicated or incorrectly matched. For example, in some service systems such as homelessness, the program may not be able to collect enough information to provide a credible match and our ability as a system administrator to link these files was limited. In response, DHS had to take a step back and initiate a significant change to the identity tables within the warehouse. This change now allows us to make and retain manual data changes to address incorrect matches and/or duplicated records.

We are now testing and refining this functionality. Once completed, we will begin doing targeted outreach to encourage clients to establish an account and use Client View to manage and coordinate their own care.

A key reason for the delay in the client-facing phase of the project is that there has been no easy answer to the question: Where can clients go to access Client View? Right now, the only place they could access it is on www.AlleghenyCountyAnalytics.US, which is not client friendly or intuitive. We need a place that makes better sense for clients. In response, DHS issued and recently closed an RFP for a Client Experience Website, to serve as a digital front door for DHS clients and Allegheny County residents to access tools (including Client View) and services.

The RFP closed on March 7th, with 18 proposals received. Currently, the evaluation team is reviewing and evaluating proposals; the team will meet on April 4th to rank proposals and select those proposers who will be invited to make an oral presentation. We anticipate that successful proposers will be notified in June, at which time the build will begin.

Use of data, client outcomes and allocation of resources

As we have seen over nearly two decades with our own implementation of Client View (and its predecessor Data View), the uptake and full operational benefits of this system takes time to achieve. But even now, we see the system assisting **DHS and providers to more effectively allocate resources.**

Clients rarely can remember and share their entire service history during intake. Now provider staff no longer rely exclusively on an individual's or family's collective memory. This leads to reduced initial and follow-up time spent discussing history and more time available for service planning and coordination. Additionally, the seamless integration of Client View within our

transactional source systems eliminates additional steps for the care coordinator who can access a client's cross system record within Client View by clicking a link provided directly within that system (without having to login again).

Before they begin providing referrals or developing service plans, provider staff are now better informed about other services a client may be receiving and have contact information to reach out to clinicians and care providers at those agencies. Knowing the totality of a client's service history and potential needs allows care coordinators to make better service choices. For example, a homelessness program may recommend a permanent supportive housing option instead of rental assistance for an individual with a history of mental illness.

This reduces the number of housing and/or service-related placements that fail because of incomplete service histories. Client view also supports simple but potentially time-consuming and costly daily activities. For example, staff needing more information about a client to complete a benefit eligibility application can find things like race, address, social security number and date of birth in the system to expedite those tasks, where the alternative would be to call, visit or in other ways request the information from the client which would potentially delay the actual application for and receipt of the benefit.

This data in Client View was previously unavailable to our contracted providers, so for the first time they are now able to make full use of it, improving their ability to assess the quality of their programs. With the support of this application, they can now do activities such as case reviews and root cause analysis to understand at a greater breadth the circumstance of their client's needs and strengths, and to determine whether the supports they are providing are appropriate for the population they are serving.

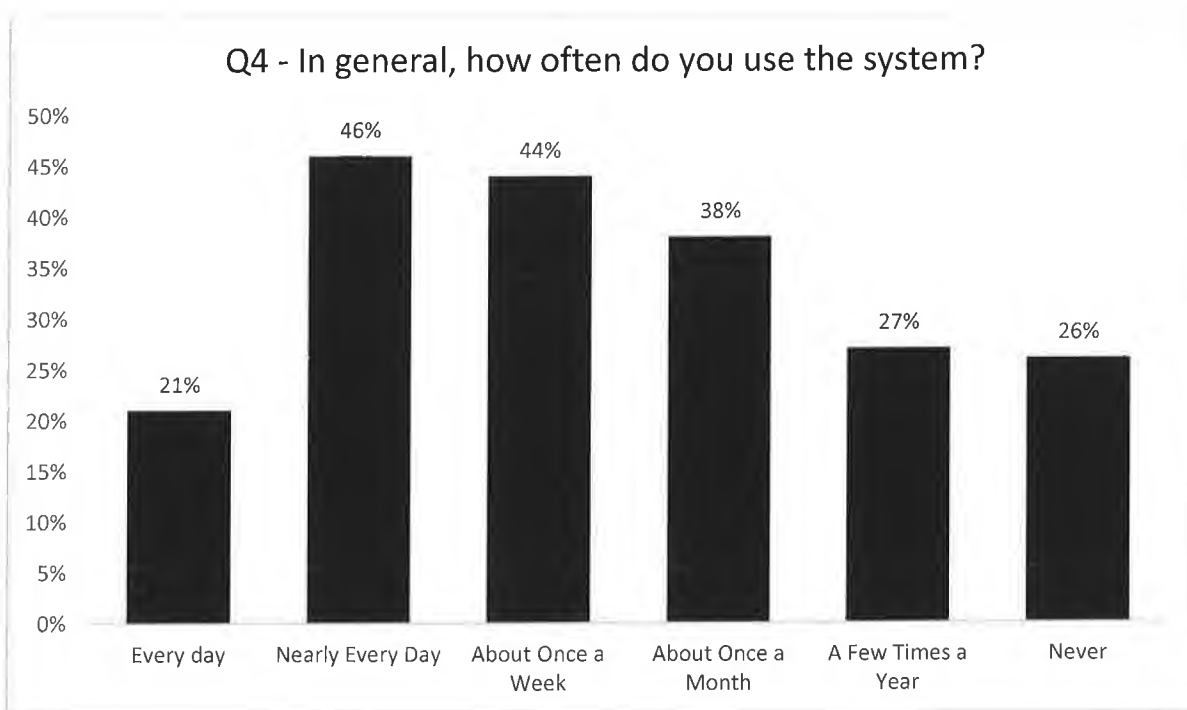
For the clients, this information sharing now and into the future means better historical documentation of their care for themselves, improved coordination of their care by DHS and provider staff, less time spent repeating the same demographic and service history information, fewer referrals for duplicative services, and fewer failed service arrangements. Ultimately, providing accurate and complete information about a client empowers care providers in partnership with those they serve, to make informed and appropriate service decisions that will better benefit the client.

Staff, provider and consumer satisfaction survey results

In February and March of 2019, the Allegheny County Department of Human Services (DHS) surveyed its employee base and provider network to request feedback about the user experience for the Client View system. The purpose of the survey was to gain insight into how often users log into the system and the level of satisfaction with the system overall. Users were given the opportunity to comment and make suggestions as well. Out of 2029 surveys, we received 170 anonymous responses (133 DHS Employees and 37 Provider users). This report summarizes those results.

Frequency of Use:

About 62 percent of users said that they utilize the system more than once a month. Twelve percent of respondents indicated that they never use the system.



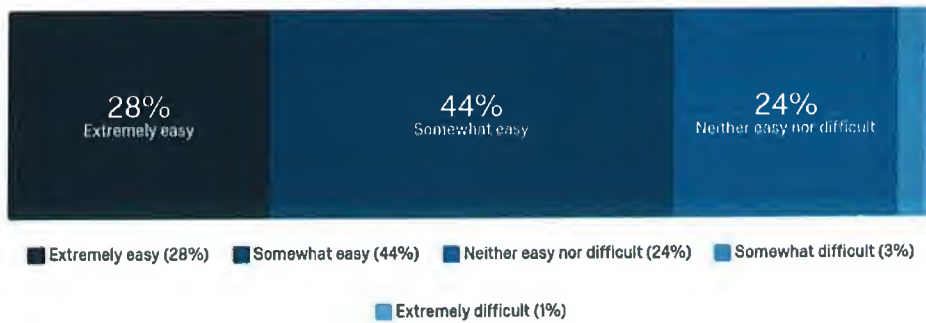
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	DHS Employee		Provider	
	%	Count	%	Count
Every day	18%	24	3%	1
Nearly Every Day	27%	36	19%	7
About Once a Week	22%	29	22%	8
About Once a Month	11%	14	27%	10
A Few Times a Year	11%	14	16%	6
Never	12%	16	14%	5
Total		133		37

Simplicity of Use:

Users were asked to indicate how easy or difficult the system is for them to use. Seventy-two percent of users indicated that the system was either extremely or somewhat easy.

Q5 - How easy or difficult is it to use Client View?



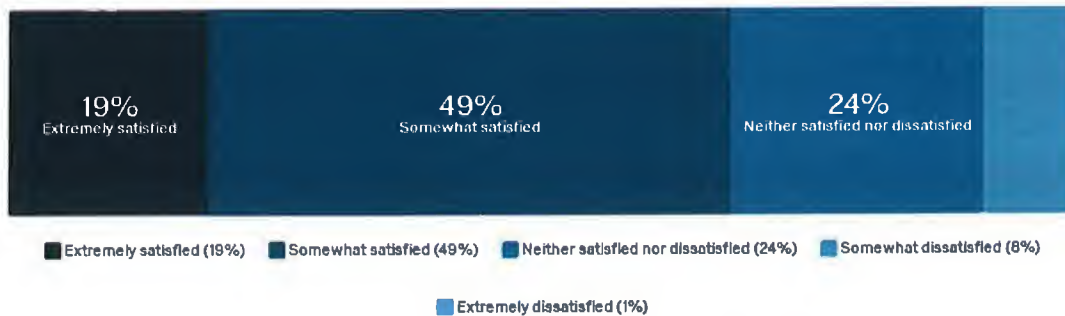
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	DHS Employee		Provider	
	%	Count	%	Count
Extremely easy	30%	40	22%	8
Somewhat easy	44%	59	41%	15
Neither easy nor difficult	22%	29	32%	12
Somewhat difficult	2%	3	5%	2
Extremely difficult	2%	2	0%	0
Total		133		37

Overall Satisfaction:

Users were asked to indicate a level of overall satisfaction with Client View. Sixty-eight percent of users indicated that they were either extremely or somewhat satisfied. Nearly all of the users that replied that they were neither satisfied nor dissatisfied indicated that they never or rarely use the system. Users were asked to explain why they chose the response they did, and many users that replied 'dissatisfied' indicated that the page loading times could be improved. Some users also expressed frustration with duplication and lag time with data refreshes. Because of this feedback, DHS is already working to optimize performance and decrease loading times for users.

Q6 - Overall, how satisfied or dissatisfied are you with the system?



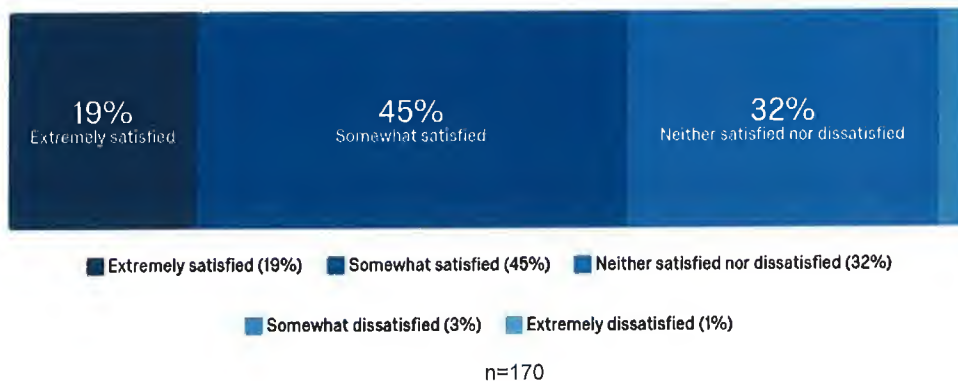
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	DHS Employee		Provider	
	%	Count	%	Count
Extremely satisfied	19%	25	19%	7
Somewhat satisfied	50%	67	43%	16
Neither satisfied nor dissatisfied	23%	30	27%	10
Somewhat dissatisfied	8%	11	8%	3
Extremely dissatisfied	0%	0	3%	1
Total		133		37

Availability of Information:

Users were asked about the information that is available in the system and whether they were satisfied or dissatisfied with the datasets currently available. In this case, 96 percent of users were satisfied or responded neutrally regarding the information that is available to them in Client View. Respondents were also given the opportunity to suggest improvements to the data or additional information that would be beneficial to end users.

Q9 - Overall, how satisfied or dissatisfied are you with the datasets available in system?



	DHS Employee		Provider	
	%	Count	%	Count
Extremely satisfied	22%	29	11%	4
Somewhat satisfied	45%	60	43%	16
Neither satisfied nor dissatisfied	30%	40	41%	15
Somewhat dissatisfied	3%	4	3%	1
Extremely dissatisfied	0%	0	3%	1
Total		133		37

Next Steps:

The results of this survey are being used to improve system functionality and will help to steer future enhancements and training. Some respondents raised questions that will be addressed in a series of short 'helpful hint' emails highlighting features and functions that could benefit all users. DHS values the time and consideration of all respondents and appreciates the comments and suggestions received. We plan to conduct another survey in the future to assess how we have improved.

ALLEGHENY FAMILY SCREENING TOOL (AFST)

Since the August 2016 implementation of the Allegheny Family Screening Tool (AFST), a number of changes have been made in response to ongoing monitoring and user feedback. These changes, which include the predictor fields used, the modeling method, and policies about how the tool is used, are described in an updated methodology report which we expect to publish by the end of April. In addition, we have received the first draft of the impact evaluation, which we also intend to publish within the next few weeks along with a summary intended for a more general audience and frequently-asked questions. The information below is based on findings from the impact evaluation.

How is the tool impacting improved client outcomes?

The AFST was designed to improve screening decisions, which we believe will lead to better safety outcomes for children as well as better outcomes for families.

Evaluation findings are detailed below, and emerge from a set of methodologically strong, quasi-experimental methods (i.e., interrupted time series analyses, generalized linear models, and difference-in-difference techniques). The evaluation primarily consists of outcome comparisons for the approximately 31,000 children who were reported for alleged maltreatment during the 18-month period *before the AFST was implemented* (Pre-AFST: January 1, 2015 through July 31, 2016) to those observed for the 34,000 children reported *after the AFST was fully implemented* (Post-AFST: December 1, 2016 through May 31, 2018). Outcomes for both groups (Pre-AFST vs. Post-AFST) were examined for 15 to 17 months after the initial maltreatment report was received.

Key findings include:

1. **Implementation of the AFST increased the accuracy of maltreatment referral screening decisions for higher risk children.** Use of the tool led to an increase in screen-in rates for higher-risk children who needed intervention supports. Specifically, there was a statistically significant increase in the proportion of children screened-in who then had a child welfare case opened or, if no case was opened, were re-referred within 60 days. This effect appears to have partially attenuated over time.
2. **The AFST led to reductions in screening disparities between black and white children with similar risk levels.** Use of the tool led to a statistically significant reduction in the proportion of black children who had cases open and a proportionate increase in white children. This meant that the pre-AFST disparity in case opening rates was eliminated.

3. **Overall, the AFST did not lead to increases in the number of children screened-in for investigation.** Use of the tool appears to have resulted in a different pool of children screened-in for investigation – including more children who needed intervention supports. But from a workload perspective, there was no significant increase in the number or proportion of children investigated among all children reported for maltreatment.
4. **There was no evidence that the AFST resulted in greater screening consistency within individual call-screeners.** Specifically, for the subgroup of 11 call screeners who handled a substantial volume of both Pre-AFST and Post-AFST referrals, attempts were made to assess whether the AFST led to more “within-screener” consistency. Likewise, changes in screening consistency by age group and racial group were also assessed. No changes were detected, although it should be noted that there was likely insufficient power to identify anything other than very large shifts.

How is the tool impacting better use of data?

The AFST represents the next generation of data-based decision making at DHS. It is the first predictive analytics tool developed to more comprehensively and effectively use data from the Data Warehouse to make screening decisions about child welfare referrals.

How is the tool impacting more effective allocation of resources?

Increased accuracy in screening decisions (a positive outcome of the AFST) has led to more effective allocation of investigation resources (i.e., more resources are being spent to investigate the higher-risk cases).

Audited financial statements

Available at <http://www.alleghenycontroller.com/audit/13/annual-reports/report/comprehensive>



Marc Cherna, DHS Director



Date

